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ABSTRACT

Science process skills such as observing, classifying, inferring, interpreting, predicting, and hypothesizing can all be classified as a sub category of thinking skills. This book is part of the series "Strategies for Learning" that focuses on the step-by-step development and application of thinking skills as a vehicle for learning science. The series provides an organized collection of hands-on activities that teaches process science through thinking-skill experiences. Each activity is preceded by a user-friendly teacher's guide that includes purpose, need, objective, preactivity discussion, preparation for activity, vocabulary, and additional resources. This module, "Analyzing Information and Data," is divided into four chapters. Chapter 1, "What Do We See When We Observe?" includes the following topics: learning about observing, electromagnets, observing and making an electromagnet, supporting observations, observing changes in behavior, and using observation beyond science. Chapter 2, "What Class Are You In?" includes the following topics: recognizing similarities and differences and organizing ideas, thinking about observations, recording observations and thinking about main ideas, and applications. Chapter 3, "Do You Have the Right Clues To Make That Conclusion?" includes the following topics: recognizing conclusions, drawing conclusions, thinking about conclusions, stating conclusions from observations, and application. Chapter 4, "Are Your Observations Related to Your Conclusions?" includes the following topics: supporting conclusions, creating an experiment, analyzing conclusions, proving conclusions, and application. (JRH)

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